

(PAI), polyester imide (PEI), polyimide (PI), polyester (PE), polyurethane (PU), polyvinylacetal (PVA), and mixtures thereof.

AI
Cashed
3/ (Currently Amended) A composition according to claim 1, in which the copolymer is obtained by adding [10% to 50%, and preferably] 20% to 40% by weight of alkoxysilane.

4/ (Original) A composition according to claim 1, in which the alkoxysilane is selected from tetraalkoxysilanes [such as tetraethoxysilane (TEOS),] and trialkoxysilanes [such as trimethoxysilane and aminopropyl-trimethoxysilane].

72
5/ (Currently Amended) A composition according to claim 1, in which the mineral filler is selected from oxides and nitrides of B, Al, Ti, Zn, Zr, Cr, and Fe[, and is preferably titanium dioxide].

6/ (Currently Amended) A composition according to claim 1, in which the mineral filler is selected from silicates [such as clays, nanocomposite clays, and mica].

7/ (Currently Amended) A composition according to claim 1, comprising [2% to 20% by weight, and preferably] 5% to 15% by weight of mineral filler.

8/ (Original) A composition according to claim 1, in which the mineral filler has a specific surface area greater than 40 m.sup.2/g.

9/ (Original) An insulation varnish for a winding wire, the varnish comprising a composition in accordance with claim 1.

10/ (Original) A method of manufacturing a composition in accordance with claim 1, the method comprising the following steps: copolymerizing the thermoplastic or thermosetting resin with at least one alkoxysilane; adding a mineral filler selected from compounds of B, Al, Ti, Zn, Zr, Cr, Fe, silicates, and mixtures thereof; and homogenizing.

11/ (Original) A method according to claim 10, in which synthesis is performed in a solvent selected from ortho-cresyl, meta-cresyl, para-cresyl, cresylic acid, N-methylpyrrolidone, dimethylacetamide (DMAC), and mixtures thereof.

12/ (Original) A method according to claim 10, in which the reaction is performed in the presence of a catalyst selected from pTSA, dibutyltin, and a polysiloxane.

13/ (Original) A method of manufacturing a winding wire, the method comprising the following steps: applying a varnish comprising a composition in accordance with claim 1 on the wire; and setting the varnish.

AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. Appl. No. 09/970,682

14/ (Original) A winding wire obtained by the method of claim 13.

15/ (Original) A coil comprising a conductor wire covered in a varnish comprising a composition in accordance with claim 1.